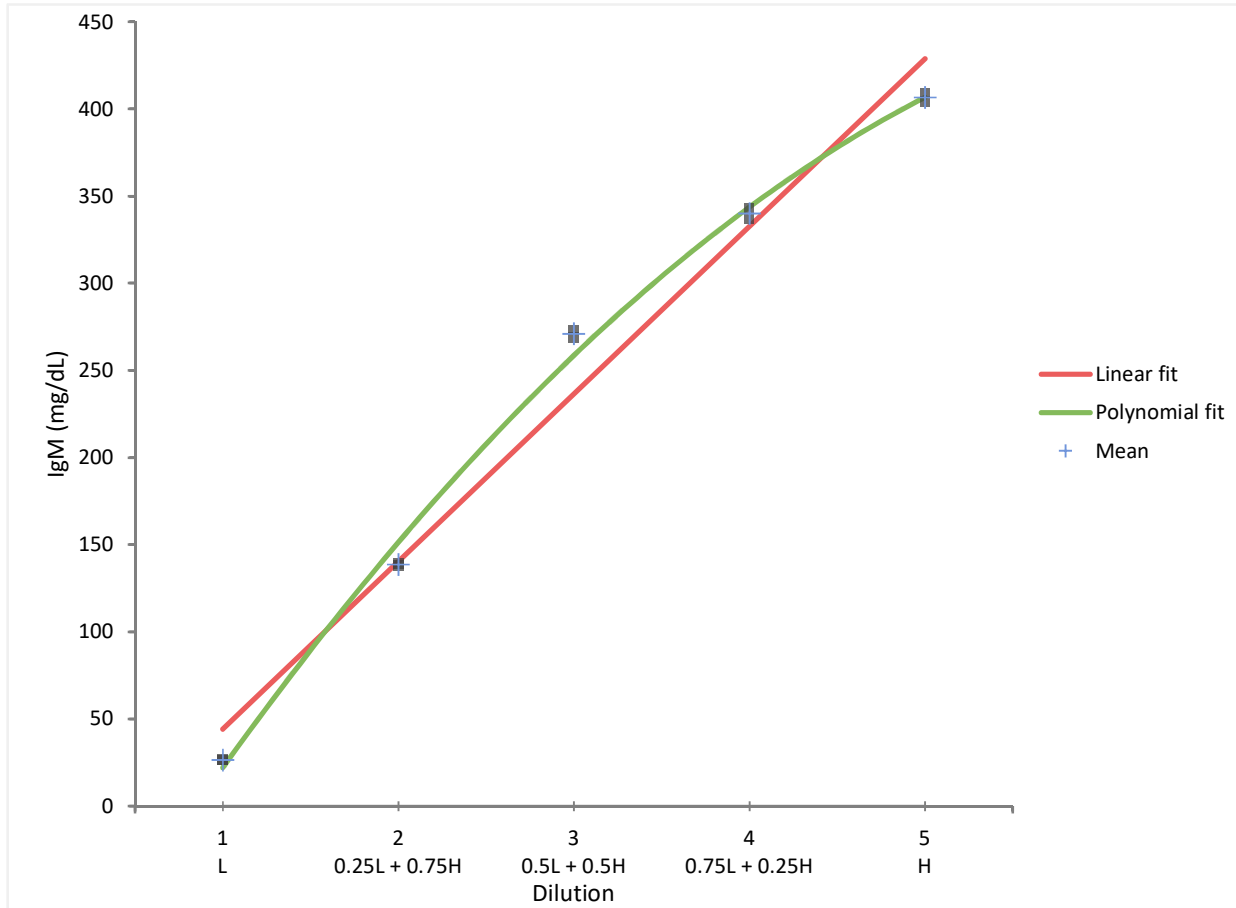


Descriptives



N | 10
Design | 5 Dilution x 2 Observations

MSA: IgM

CLSI EP06-A - Appendix C

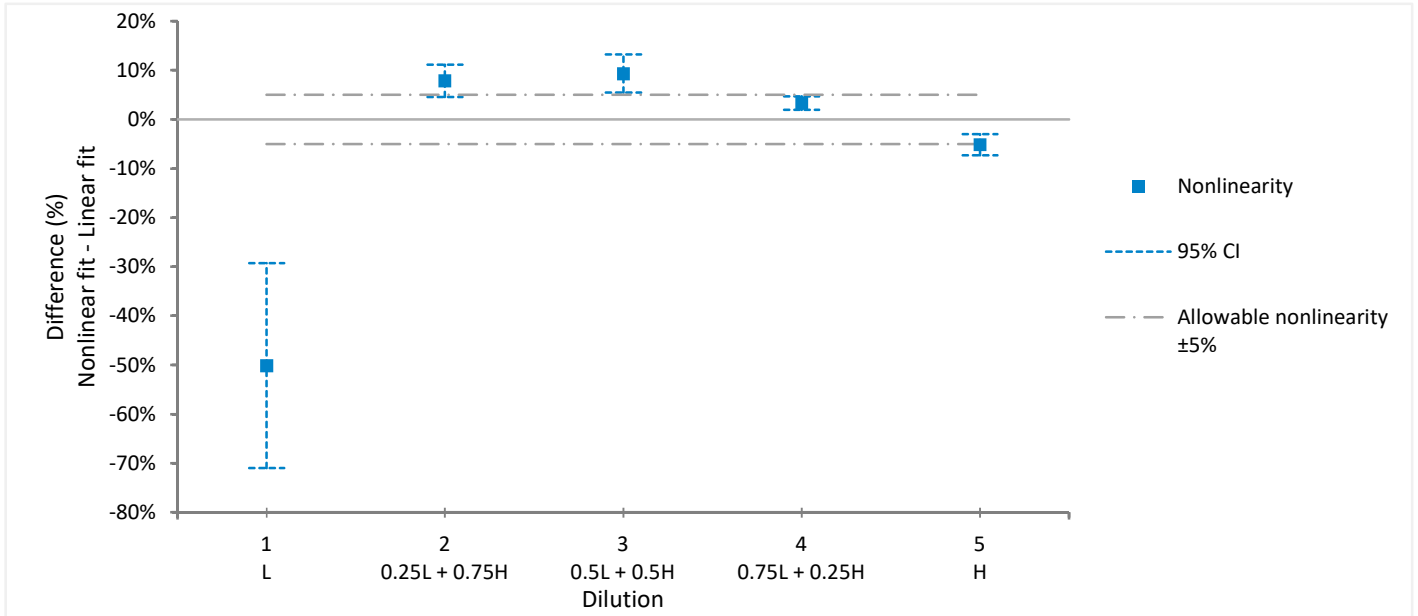
Last updated 10 August 2018 at 12:14 by Simon

Measuring interval | 26.35 to 406.50

Precision

Dilution	Mean	SD	CV	Allowable SD / CV
1	26.35	0.21	0.8%	2.0%
2	138.50	0.71	0.5%	2.0%
3	271.00	2.83	1.0%	2.0%
4	340.00	4.24	1.2%	2.0%
5	406.50	3.54	0.9%	2.0%
Pooled		2.79	0.9%	2.0%

Linearity



Dilution	Linear fit	Nonlinear fit (2nd order polynomial)	Nonlinearity	95% CI	Allowable nonlinearity
1	44.11	22.00	-50.1%*	-71.0% to -29.3%	±5.0%
2	140.29	151.35	7.9%*	4.6% to 11.2%	±5.0%
3	236.47	258.58	9.4%*	5.5% to 13.2%	±5.0%
4	332.65	343.71	3.3%	1.9% to 4.7%	±5.0%
5	428.83	406.72	-5.2%*	-7.3% to -3.0%	±5.0%

* Performance requirement not met.

Fit Model

Linear fit

RMSE | 22.82

Parameter	Estimate	SE	t	DF	p-value
Constant	-52.07	16.924	-	-	-
X	96.18	5.1028	-	-	-

2nd order polynomial fit

RMSE | 10.30

Parameter	Estimate	SE	t	DF	p-value
Constant	-129.5	15.624	-	-	-
X	162.5	11.907	-	-	-
X ²	-11.06	1.9469	-5.68	7	0.0008 ¹

¹ Nonlinear parameter is different from 0 at the 5% significance level.

3rd order polynomial fit

RMSE | 10.32

Parameter	Estimate	SE	t	DF	p-value
Constant	-97.48	35.884	-	-	-
X	117.6	46.906	-	-	-
X ²	6.080	17.410	0.35	6	0.7388
X ³	-1.904	1.9223	-0.99	6	0.3601